	Application No.	Applicant(s)	
Notice of Allowability	10/617,400	IMAMIYA ET AL.	
	Examiner	Art Unit	
	Connie C. Yoha	2818	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	in this application. If not include nunication will be mailed in due of	d course. THIS
1. \boxtimes This communication is responsive to $7/11/03$.			
2. X The allowed claim(s) is/are 1-18.			
3. \boxtimes The drawings filed on <u>11 July 2003</u> are accepted by the Ex	aminer.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have The priority documents have Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Applicat cuments have been receiv of this communication to fi	ion No ed in this national stage applicat	
5. A SUBSTITUTE OATH OR DECLARATION must be submi	itted. Note the attached EXes reason(s) why the oath	(AMINER'S AMENDMENT or No or declaration is deficient.	OTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Revies Amendment / Comment of 84(c)) should be written on	or in the Office action of the drawings in the front (not the	back) of
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 703 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview 9 Paper No 8), 7. ☐ Examiner' 8. ☑ Examiner' 9. ☐ Other	nformal Patent Application (PTC Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allow	·

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DETAILED ACTION

This office acknowledges receipt of the following item from the Applicant:
 Information Disclosure Statement (IDS) filed on 7/11/03 and it was consider.

 Papers submitted under 35 U.S.C. 119(a)-(d) have been placed of record in the file.

2. Claims 1-18 are presented for examination.

REASONS FOR ALLOWANCE

3. The following is an examiner's statement of reasons for allowance:

Claims 1-18 are considered allowable since the prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. The prior art does not teach the claimed invention having in combination with other features a method and a nonvolatile semiconductor memory having a write voltage control circuit; first binary counter which operates after an initial value for a write voltage has been set, to count a first clock signal supplied every time the verification fails and supply output data to the write circuit as data on a write voltage for each verify write; a second binary counter using a first timing, counts a second clock signal supplied if a verify write executed on the target write unit fails even though the verify write is repeated a number of times set in the first register, and supplies output data to the first binary counter as an initial value for the write voltage; a first and second register; an accumulative value storage circuit which is reset using a second timing and stores a value corresponding to an accumulative value for the contents of the second binary

counter obtained as a result of the verify write executed on a plurality of write units corresponding to the number of times specified by the second register;

- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nakai et al (5297029) and Saito et al (6222779) disclose memory device having plurality of memory cells and write/erase and verify functions.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to whose telephone number is (571) 272-1799. The examiner can normally be reached on Mon. - Fri. from 8:00 A.M. to 5:30 PM. The examiner's supervisor, David Nelms, can be reached at (571) 272-1787. The fax phone number for this Group is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-0956.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov should you

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have questions on access to the Private Pair system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C.Ýoha

April 2004

Connie C. Yoha

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